verizon wireless

User Guide
LG-TM510

CDMA/AMPS/PCS TRI MODE PHONE

LG-TM510 USER GUIDE

LG-TM510 Guía del usuario

TELÉFONO DE MODO TRIPLE DE CDMA/AMPS/PCS

verizon wireless

P/N: MMBB0027401 (1.4)
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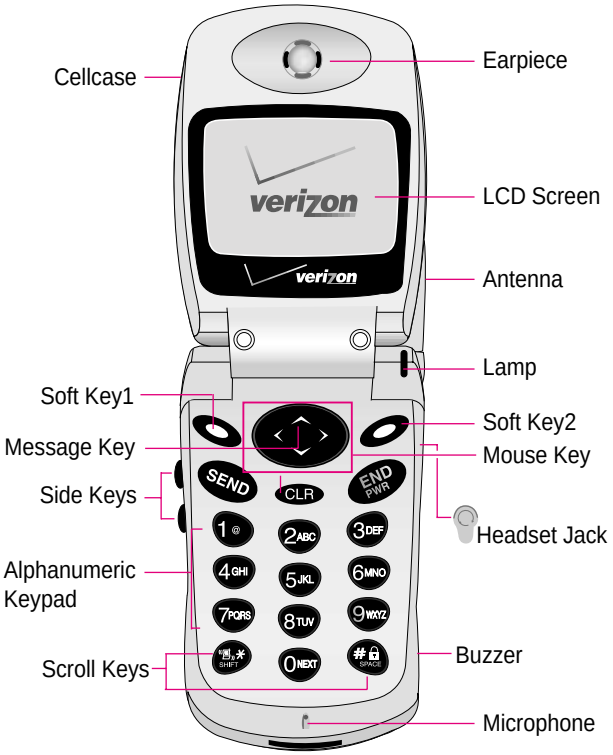
Phone components

The following shows the key components of your mobile phone.



Please refer to the overview descriptions of each special feature on Page 9.

LIMITED WARRANTY STATEMENT

1. WHAT THIS WARRANTY COVERS:

LG offers you a limited warranty that the enclosed subscriber unit and its enclosed accessories will be free from defects in material and workmanship, according to the following terms and conditions:

(1) The limited warranty for the product extends for ONE (1) year beginning on the date of purchase of the product.

(2) The limited warranty extends only to the original purchaser of the product and is not assignable or transferable to any subsequent purchaser/end user.

(3) This warranty is valid only for the original purchaser of the product during the warranty period as long as it is in the U.S., including Alaska, Hawaii, U.S. Territories, and Canada.

(4) The external housing and cosmetic parts are free of defects at the time of shipment and, therefore, shall not be covered under these limited warranty terms.

(5) Upon request from LG, the consumer must provide information to prove the date of purchase.

(6) The customer shall bear the cost of shipping the product to the Customer Service Department of LG. LG shall bear the cost of shipping the product back to the consumer after completion of service under this limited warranty.

2. WHAT THIS WARRANTY DOES NOT COVER:

(1) Defects or damages resulting from use of the product in other than its normal and customary manner.

(2) Defects or damages from abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of LG, including damage caused by shipping, blown fuses, and spills of food or liquid.

(3) Breakage or damage to antennas unless caused directly by defects in material or workmanship.

(4) That the Customer Service Department at LG was not notified by consumer of the alleged defect or malfunction of the product during the applicable limited warranty period.

(5) Products which have had the serial number removed or made illegible.

(6) This limited warranty is in lieu of all other warranties, express or implied either in fact or by operations of law, statutory or

otherwise, including, but not limited to, any implied warranty of marketability or fitness for a particular use.

(7) Damage resulting from use of non-LG approved accessories.

(8) All plastic surfaces and all other externally exposed parts that are scratched or damaged due to normal customer use.

(9) Products operated outside published maximum ratings.

(10) Products used or obtained in a rental program.

(11) Consumables (such as fuses.)

3. STATE LAW RIGHTS:

No other express warranty is applicable to this product. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. LG INFOCOMM INC. SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR INABILITY TO USE, THIS PRODUCT OR FOR ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY APPLICABLE TO THIS PRODUCT.

Some states do not allow the limitation of incidental or consequential damages or limitations on how long an implied warranty lasts; so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

4. HOW TO GET WARRANTY SERVICE:

To obtain warranty service, please call the following telephone number from anywhere in the continental United States:

Tel. 1-800-793-8896
www.lgeservice.com

Please call or write for the location of the LGE authorized service center nearest you and to obtain warranty claim procedures.

LG Electronics Service

201 JAMES RECORD ROAD, HUNTSVILLE, AL 35824

10 Driver Safety Tips

Your wireless phone gives you the powerful ability to communicate by voice almost anywhere, anytime. An important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When operating a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
2. When available, use a hands-free device. A number of hands-free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.
3. Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can reach it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voicemail answer it for you.
4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.

5. Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to-do" list while driving a car, you are not watching where you are going. It is common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.

6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip -- dial only a few numbers, check the road and your mirrors, then continue.

7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix; they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.

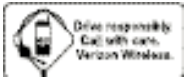
8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations -- with your phone at your side, help is only three numbers away. Dial 911 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!

9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 911 or other local emergency number, as you would want others to do for you.

10. Call roadside assistance or a special wireless non-emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you can still use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

For more information, please call to 888-901-SAFE, or visit our website www.wow-com.com

Provided by the Cellular Telecommunications Industry Association



THIS PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. Tests for SAR are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this phone when tested for use at the ear is 1.42mW/g and when worn on the body, as described in this user guide, is 1.33mW/g. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements.) While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment Authorization for this phone with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID BEJTM510.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) website at http://www.wow-com.com

In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

SUBJECT

The LG-TM510 phone has been designed to operate on the latest digital mobile communication technology, Code Division Multiple Access (CDMA). CDMA digital technology has greatly enhanced voice clarity and can provide a variety of advanced features. Currently, CDMA mobile communication technology has been commercially used in Cellular and Personal Communication Service (PCS).

The difference between them is the operating frequency spectrum. Cellular uses 800 MHz and PCS uses 1.9 GHz. The LG-TM510 phone can operate on both frequencies, so it is referred to as a dual-band phone. Also, the LG-TM510 phone works on Advanced Mobile Phone Service (AMPS). We call it a tri-mode phone. If one of the Cellular, PCS, and AMPS base stations is located nearby, the call fail rate of the tri-mode phone is less than a dual-band phone or a single-band phone.

CDMA technology adopts DSSS (Direct Sequence Spread Spectrum.) DSSS enables the phone to keep communication discreet and allows one frequency channel to be used by multiple users in the same specific area, resulting in increased capacity 10 times more compared to the analog mode currently used. Soft/Softer Handoff, Hard Handoff, and Dynamic RF power control technologies are combined into this phone to reduce interruptions in a middle of a call.

Cellular and PCS CDMA network consists of MSO (Mobile Switching Office), BSC (Base Station Controller), BTS (Base station Transmission System), and MS (Mobile Station). The following table lists some major CDMA Standards.

CDMA Standard	Designator	Description
Basic air interface	TIA/EIA/IS-95-A	Protocol between MS and BTS for Cellular & AMPS
	ANSI J-STD-008	Protocol between MS and BTS for PCS
Network	TIA/EIA/IS-634	MAS-BS
	TIA/EIA/IS/651	PCSC-RS
	TIA/EIA/IS-41-C	Intersystem operations
	TIA/EIA/IS-124	Nom-signaling data comm.
Service	TIA/EIA/IS-96-B	Speech CODEC
	TIA/EIA/IS-99	Assign data and fax
	TIA/EIA/IS-637	Short message service
	TIA/EIA/IS-657	Packet data
Performance	TIA/EIA/IS-97	Cellular base station
	TIA/EIA/IS-98	Cellular mobile station
	ANSI J-STD-018	PCS personal station
	ANSI J-STD-019	PCS base station
	TIA/EIA/IS-125	Speech CODEC

※TSB -74: Protocol between an IS-95A system and ANSI J-STD-008

Introduction

Highlights

Congratulations! Your new mobile phone will change your way of communicating and is a compact, lightweight personal communication system with added features for the person on the go. Our advanced digital mobile communication technology has the following features:

- Large, easy-to-read, 5-Line, backlit LCD with status icons.
- Paging, messaging, voicemail, and caller ID.
- 18-key keypad.
- Long battery standby and talk times.
- Menu-driven interface with prompt for easy operation and configuration.
- Any key answer, auto redialing, one touch and speed dialing with 199 memory locations.
- Multi language (two languages: English and Spanish.)
- Optional accessories (see pages 72~73)

Important Information

This user guide provides important information on the use and operation of the phone. For best performance and to prevent any unanticipated damage to, or misuse of, the phone, please carefully read all of the information in this manual prior to use. Any unapproved change or modification will void your warranty.

Check Accessories

Your mobile phone comes with standard accessories of a one-slot desktop charger and a rechargeable battery. Please make sure that those accessories are included.

Before You Start

Safety Instructions

WARNING! To reduce the possibility of electric shock, do not expose your phone to high humidity areas, such as the bathroom, swimming pool, etc.

IMPORTANT! Please read the SAFETY AND GENERAL INFORMATION on page 75 prior to using your phone.

FCC RF Exposure Information

***WARNING!** Read this information before operating the phone*

In August 1996, the Federal Communications Committee (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters.

Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

⚠ CAUTION

Use only the supplied and approved antenna. Use of unauthorized antennas or modifications could impair call quality, damage the phone, or result in violation of FCC regulations.

Do not use the phone with a damaged antenna. If the damaged antenna comes into contact with skin, a minor burn may result. Contact your local dealer for replacement of the antenna.

Body-worn Operation

This device was tested for typical body-worn operations with the back of the phone kept ¾ inch (2 cm) from the body. To comply with FCC RF exposure requirements, a minimum separation distance of ¾ inches (2 cm) must be maintained between the user's body and the back of the phone, including the antenna, whether extended or retracted. Third-party belt-clips, holsters, and similar accessories containing metallic components should not be used. Body-worn accessories that cannot maintain ¾ inch (2 cm) separation distance between the user's body and the back of the phone, and have not been tested for typical body-worn operations may not comply with FCC RF exposure limits and should be avoided.

Vehicle Mounted External Antenna (optional, if available)

A minimum separation distance of 8 inches (20 cm) must be maintained between the user/bystander and the vehicle mounted external antenna to satisfy FCC RF exposure requirements.

For more information about RF exposure, visit the FCC website at www.fcc.gov

FCC Part 15 Class B Compliance

This device and its accessories comply with part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device and its accessories may not cause harmful interference, and (2) this device and its accessories must accept any interference received, including interference that cause undesired operation.

Caution For Battery Use

- Do not disassemble.
- Do not short-circuit.
- Do not expose to high temperature: 60°C (140°F)
- Do not incinerate.

Battery Disposal

- Must be recycled or disposed of properly.

Caution For Adapter/Charger Use

- Using the wrong battery adapter/charger may damage your phone and void your warranty. The battery may burst, causing injury and damage.
- The adapter/charger is intended for indoor use only.

Do not expose the battery adapter/charger to direct sunlight or use it in any place with high humidity, such as the bathroom.

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Chapter 1. Getting Started

Cautions

- Using the phone in proximity to receiving equipment (i.e., TV or radio) may cause interference.
- Keep your phone in a safe place when not in use.
- Only use the batteries, antennas, and chargers provided by LG. Using unauthorized accessories could void your warranty.
- Only authorized personnel should service the phone and its accessories. Faulty installation or service may result in an accident and may void your warranty.
- Do not hold the antenna while the phone is in use.
- Do not use the phone in designated No Cellular Phone Use areas, such as near blasting areas or in medical facilities.
- Do not expose the phone to high temperature or humidity.
- Avoid getting your phone wet. If the phone gets wet, turn the power off immediately and remove the battery. If the phone malfunctions, return it to the dealer for service.
- Avoid shock or impact on the phone.

Phone Overview

Function	Key Description
Lamp	The red light is illuminated when you turn the power on, when you have incoming calls or messages.
LCD Screen	Displays messages and indicator icons.
SEND	Use to place or answer calls.
END PWR	Use to turn power on/off and to disconnect a call. Use to return to the previous menu.
Mouse Key	Use to quickly access text and voicemail notification messages. calendar, outgoing call log, phonebook Find Name.
Cellcase	Close the cellcase to end a call in progress. Open the cellcase to answer an incoming call.
Soft Keys ,	Soft Key 1 : Use to display the function setting menu. Soft Key 2 : Use to go back one level in a menu.
Side Keys	Use to adjust key beep volume (in standby mode) and earpiece volume (during a call).
Scroll Keys ,	Use to scroll through the memory locations and menu items. - In standby mode, set the manner mode by pressing . (for 2 seconds) - In standby mode, set the lock mode by pressing . (for 3 seconds)
Alphanu-meric Keypad	Use the keys to enter numbers, characters and choose menu items.
Clear Key CLR	Use to backspace and delete a single space or character. Press and hold to delete entire words. When manual mode is selected from Voice Setup menu, if you press CLR, your phone will prompt you to speak a voice command. You can then access the programmed phone number. (This feature is available only when voice command is programmed.)

Onscreen Icons

The phone screen displays several icons which appear when the phone is powered on.

Icon	Description
	Displays the current signal strength received by the phone as indicated by the number of bars on the screen.
	No service The phone is not receiving a system signal.
	In use A call is in progress. * No icon indicates the phone is in standby mode.
	Digital indicator Digital service is available.
	Analog indicator Analog service is available.
	Indicates that a text message or voicemail has been received.
R	Roaming The phone is outside of its home service area.
	Charge level Indicates battery charge level.

Entering Information Using T9 Text Input

You can edit the Banner, Scheduler, Short Message and Phone Book using T9 Text Input.

Key Functions

(Up and Down): Press to scroll and select a mode through menus.

(1) You can scroll through the modes using (Down) key in the following order: T9En → Eng → 123 → Spc → T9HLP → T9En

(2) You can scroll through the modes using (Up) key in the following order: T9En → T9HLP → Spc → 123 → Eng → T9En

- Within Phone book, you can change mode by pressing Soft Key 2.
- SHIFT key ( ): Used to change the letter case.

2 ~ 9 (Type Text): In T9 mode, press one key per letter to enter text.

0 ~ 9 (Type Numbers): In 123 (Numbers) mode, press once to enter numbers.

0 (Next): In T9 mode, press to display other matching words.

1 (Punctuation): In T9 mode, press to insert punctuation into a word and to complete a sentence.

(Shift): Press to change the letter case.

(Space): Press to complete a word or punctuation and insert a space.

CLR (Clear): Press to backspace and delete a single space or character. Press and hold to delete entire words.

Input mode

Text Input provides five modes for entering text, numbers, special characters, and punctuation.

T9En (T9) Mode

Type text using one keystroke per letter. The default is T9 mode.

Eng (Multi-tap) Mode

Use ENG mode to add words to the T9 database.

123 (Numbers) Mode

Type numbers using one keystroke per number.
To change to 123 mode in a text entry field, press ⇕ until 123 mode is displayed.

Spc (Special Characters) Mode

Insert special characters and punctuation.

You may use any of the 33 special characters. Enter the number next to the character you want to insert. In Spc mode press Mouse Key (⇔) to cycle through the following characters:

1 . 2 @ 3 /	1 (2) 3 \	1 ¦ 2 ^ 3 [	1 + 2 * 3 _
4 1 5 ? 6 ,	4 ~ 5 ” 6 #	4] 5 ! 6 ;	4 < 5 > 6 `
7 ' 8 & 9 -	7 ¼ 8 { 9 }	7 = 8 : 9 $	7 8 9

T9HLP (T9Help) Mode

Display T9 Help Text.

Changing Letter Case

These are three options for selecting letter case:

Initial Cap (T9En/Eng)

Only the first letter is capitalized.

Caps Lock (T9EN/ENG)

Press # to change letter case to Caps Lock.
All subsequent letters are capitalized.

Lowercase (T9en/eng)

Press # again to change letter case to lowercase.

Examples Using T9 Text input

Typing In T9 Mode

To type a new message, follow these steps:

1. Press : ⇑ , ⇓ to change letter case, if necessary.
2. Press : 2 2 5 5 .
3. Press : # to complete the word and add a space.
4. Press : 8 4 3 # 6 3 3 4 2 3 .
5. Display : Call the office

Using the NEXT Key

After you have finished typing a word, if the word displayed is not the word you want, press 0 to display additional choices.
For example, follow these steps:

1. Press : 4 6 6 3 .
2. Display : Good
3. Press : 0 .
4. Display : Home, Gone, Hood.....

Adding Words to the T9 Database

If a word is not in the T9 database, add it using Eng (Multi-tap) mode text entry. The word is automatically added to the T9 database when you return to T9 mode. For example, follow these steps:

1. Press : to change letter case to Eng (multi-tap) mode
2. Press : 4GHI 4GHI 4GHI 6MNO 8TUV .
3. Display : Imt
4. Press : to change letter case to T9 mode and then, the word of Imt will be added to the T9 database.
5. Press : CLR to erase the existing word of Imt
6. Press : 4GHI 6MNO 8TUV .
7. Display : got
8. Press : 0NEXT 0NEXT .
9. Display : imt

Examples Using Eng (Multi-tap) Text Input

To type a new message in Eng (Multi-tap) Mode, follow these steps:

1. Press : to change letter case to Eng mode
2. Press : to change to ENG Caps Lock mode
3. Press : 5JKL 5JKL 5JKL 4GHI .
4. Display : LG

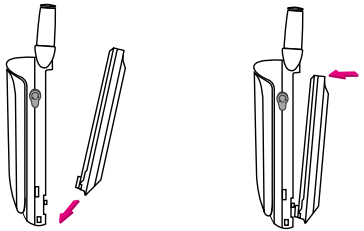
Using the Battery

Charge the battery fully before the initial use of the phone.

The phone comes with a rechargeable battery. Charge the battery fully prior to using. Keep the battery charged while not in use in order to maximize talk time and standby time when using the phone.

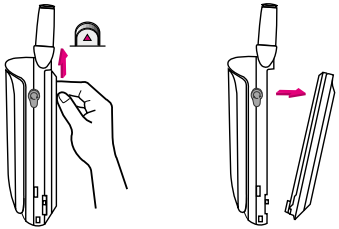
Installing the Battery

To install the battery, insert the bottom of the battery into the opening on the back of the phone. Then, push the battery down until the latch clicks.



Removing the Battery

Turn the power off. (If power is on, a loss of stored numbers and messages may occur.)
Lift the removal button to detach the battery.



Battery Charge Level

The battery charge level is shown on the top right of the LCD screen.

When the battery charge level becomes low, the low battery sensor will alert you in three ways: Sounding an audible tone, blinking the battery icon outline, and displaying LOW BATTERY WARNING! If the battery charge level becomes exceedingly low, the phone will automatically power off and any function in progress will not be saved.

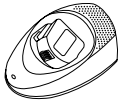
Using the Desktop Charger

The desktop charger has a slot for recharging batteries. The slot accommodates the phone and battery for charging.

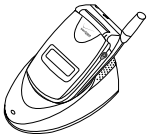
Warning! Use only the desktop charger provided with the phone. Using the wrong charger may cause damage to your phone or battery.

1. Plug the charger into a wall outlet.

- The phone must be charged from a 110V power source only.



2. Insert the phone with an installed battery, or a battery alone, into the slot of the charger.



- Red light indicates the battery is being charged.
- Green light indicates the battery is fully charged.

Charge time will vary, depending upon battery level. Maximum charge time for a fully discharged battery will not exceed 3 hours.

Caring for the Battery

1. To recharge the battery, you do not need to wait until the battery is completely discharged.
2. Use only LG batteries and chargers. LG's chargers are designed to maximize battery life.
3. Do not disassemble or short-circuit the battery.
4. Keep the metal contacts of the battery clean.
5. Replace the battery when it no longer provides acceptable performance. The battery may be recharged five hundred times before it needs replacing.
6. Recharge the battery if it has not been used for a long time to maximize the battery life.
7. Do not expose the battery charger to direct sunlight or use it in high humidity areas, such as the bathroom.
8. Do not leave the battery in hot or cold places; this may deteriorate the battery performance.

Chapter 2. Basic Functions

Turning the Phone On and Off

Turning the Phone On

1. Install a charged battery or connect the phone to an external power source such as the cigarette lighter adapter or hands-free kit.
2. Press END PWR for a few seconds until the red light on the middle of the phone flashes.

▶ Fully extend the antenna for the best performance.

Note | As with any other radio device, avoid any unnecessary contact with the antenna while your phone is on.

Turning the Phone Off

1. Press and hold END PWR until the display screen turns off, then release the key.
2. Protect the antenna by pushing it back into the phone, if extended.

Making a Call

When you make a call, follow these simple steps:

1. Make sure the phone is turned on.

▶ If not, press END PWR.

2. Enter the phone number, with area code, if needed.
3. Press SEND.

▶ If the phone is locked, enter the lock code.

▶ ***Call Failed*** indicates that the call did not go through.

▶ ***This phone has been restricted*** on the display screen means that outgoing call restricted mode is turned on.

▶ If you want to turn off this function, take the following steps.

Menu → **6 Security** → Lock code insert → **2 Restrict** → No → **Ok**

4. Press END PWR to disconnect the call.

Correcting Dialing Mistakes

If you make mistakes in dialing a number, press CLR once to erase the last entered digit or hold down CLR for at least two seconds to delete all digits, or simply press Soft Key 2 Back to exit dialing state.

Receiving Calls

1. When the phone rings, open cellcase, or if cellcase is open, press any key (except END PWR, ▲, ▼, ◁▷) to answer.

▶ To mute the ringer during a call, press END PWR or Side Keys (▲ ▼) once. The current call will stop ringing or vibrating.

2. Press END PWR to disconnect the call.

In call waiting mode, the present call is put on hold as you answer another incoming call.

This service is provided by your service provider.

When the call waiting function is activated, your phone will beep if you have an incoming call. Your phone may also display the incoming caller's identification.

Using Quick Mode

Manner Mode

Use Manner Mode in a public place.

1. Hold down * for 2 seconds and **Manner Mode** will be activated.

▶ When Manner Mode is set, ***Manner Mode*** is displayed on the LCD screen.

▶ When Manner Mode is set, the key tone does not sound and the phone is automatically set to vibrate mode for incoming calls.

Note To release Manner Mode, press * again until ***Normal Mode Entered!*** is displayed.

Lock Mode

Use to prevent others from using your phone.

1. In standby mode, to activate Lock Mode, press # (for 3 seconds).

   Lock Mode Setting! will be displayed.

Note To release Lock Mode

Press Soft Key 1 Unlock, then enter password (4 digits).

Lock code (password) is commonly the last 4 digits of your phone number.

Call Waiting

Your service provider may offer a call waiting function. When using your phone, you may hear two beeps indicating another incoming call. When call waiting is enabled, you may put the active call on hold while you answer the other incoming call. Check with your service provider regarding this function.

1. Press SEND to receive a waiting call.
2. Press SEND again to switch between calls.

Mute

This function prevents your voice from being transmitted, but you can still hear the other party.

1. Press Soft Key 1 Menu and 1@ during a call.
2. To release Mute, press Soft Key 1 Menu and 1@ again.

Redialing Calls

1. Press SEND to redial the last number in call history.

▶ You can also redial any of the last 10 numbers you have dialed. The last 10 numbers are stored in the call history list. (See the ***Recent Call History List*** on page 49.)

Adjusting the Volume

The volume key on the top of left side (Side Keys) of the phone can be used to adjust earpiece, ringer, and key beep volumes. The upper key is used to increase and the lower key is used to decrease the volume.

- You may adjust the earpiece volume during a call.
- To adjust the ringer volume through the main menu. Select Soft Key 1 Menu, select Sound, then select Ring&Vib Vol. If you adjust the ringer to a minimum the ringer will be muted and the LCD displays ***-Ringer Off-***.
- The key beep volume is adjusted through Menu feature.

Power Save Mode

When the phone is in an area without service for 15 minutes, it stops searching for service and enters into Power Save Mode. When your phone activates this feature, ***Power Save*** is displayed on the screen. The phone automatically checks for service periodically or you can check manually by pressing any key.

Signal Strength

The call quality depends on the signal strength in your area. The current signal strength is displayed on LCD in the upper left hand corner; the more bars, the better the signal strength. If the signal quality is poor, move to an open area. If you are in a building, the reception may be better near a window. For maximum reception, make sure that the antenna is fully extended.

Emergency Dialing

You can place calls to emergency number 911 - even if your phone is locked or restricted.

1. Press 9wxz then SEND.

OR

1. Press and hold 9wxz (for more than 3 seconds).

Mini Display

The small LCD on the outside of the cellcase is called the Caller ID LCD. It displays the latest of the following information until the cellcase is open. Once the cellcase is opened, the main LCD displays the event status.

Caller ID LCD will display the following information:

- Time and date.
- Caller's information. (name or number)
- Number of missed calls.
- Number of new messages.
- No service status and sleep mode.

Speed Dialing (see Dialing from Phone Book on page 28)

Speed dialing is a convenient feature, allowing you to make phone calls quickly and easily. Your phone recalls the phone number from your personal directory, displays it briefly, and then dials it.

1. Enter memory location number 1 to 199, except for 9. (Entry 9 is reserved for emergency calls.)
2. Press SEND. The phone will recall the number from memory, display it, and then dial it.

Caller ID

You can only use this feature if your service provider has this option available and has set up the feature on your phone.

If you have this feature, the phone number of the caller will be displayed on the screen. If the screen reads, ***Number is Unavailable*** then the caller has a call block feature on his/her phone.

Note The name of the caller will appear on the screen if the name and phone number of the person calling is stored in the Personal Phone Directory of your phone.

Phone Book Features

You can store up to 198 entries in the phone book with easy access to your most frequently dialed phone numbers. (Entry 9 is reserved for emergency calls.)

Personal Phone Book Memory

The phone has 198 personal phone book memory locations where you can store up to 5 phone numbers with 32-digit capacity on each phone number. (Entry 9 is reserved for emergency calls.)

Saving Numbers in Your Personal Phone Book

Memory locations 1 through 8 should be used for one-touch dialing for your most frequently used phone numbers.

1. Enter phone number you want to save (up to 32 digits).
2. Press Soft Key 1 Opt, then a sub-menu will appear.
3. Select **Save** on the sub-menu.

4. The phone prompts you for the memory location where the number will be saved. Press Soft Key 1 Next to store the number automatically in the first available memory location. You also have the option to enter a specific three-digit memory location number.

   (Entry 9 is reserved for emergency calls.)

5. Select your desired label, such as **Home**, **Office**, **Mobile**, **Pager**, **Data / Fax** using ‹›.
6. Enter a name for the phone number (up to 16 characters). If you do not want to enter a name, go to the next step.
7. Press Soft Key 1 Save. A confirmation prompt **Saved! Thanks!** displays on the phone.

Retrieving Numbers

Retrieving by Name Search

1. Press Soft Key 2 Book.
2. Press **Phone Book**.
3. Press **Find Name**.
4. Enter the character(s) that you want to search for.
5. Press Soft Key 1 Find.
   - The phone searches for names with that character string. (Searches will ignore difference between uppercase and lowercase letters.)
6. You will see a list of matches.
7. Press Soft Key 1 View to see specifics in that memory location, or press SEND to place the call.

Retrieving Telephone Numbers

Retrieving Phone Numbers Using Memory Location.

Press Soft Key 2 Book on the initial display and select **Phone Book; Find Entry** will be followed by an inquiry of Entry #. Type in the Entry # of the desired phone number.

To search telephone numbers, enter specific number(s) in the initial display and press Soft Key 1 Ok. By selecting **Find** on the sub-menu, the Entry List will appear. Information linked to the entry will appear upon selecting a telephone number for which details are desired.

How do I add phone numbers, names, and email address to a previously saved number in my Personal Phone Book

1. Press Soft Key 2 Book.
2. Press **Phone Book, Find Entry.**
3. Enter the memory location number or press Soft Key 1 to View the entire phone book. Use the navigation key to select entry and press Soft Key 1.
4. Highlight the desired **Phone Number** using the navigation key to add or edit the location then press Soft Key 1 View.
5. If you want to add the new number to the same location, use ⌄ to highlight **the label** (Example Home).

6. Use ‹ › then select another location such as **Office, Mobile, Pager, Data/Fax, E-Mail**.
7. Use ⌄, then enter the **new number or email address** for the new location.
8. Press Soft Key 1 Save.

Dialing from Phone Book

You can place a call from any memory location either by speed dialing or by pressing SEND while looking up the memory location.

One-Touch Dialing One-touch dialing is a convenient feature which enables you to dial frequently used numbers in your personal Phone Book by pressing a key (for memory locations 1 through 8).

For locations 1 to 8, you can use one-touch dialing (if enabled, see **One-Touch** on page 39) by pressing and holding down the key corresponding to the memory location. (Entry 9 is reserved for emergency calls.)

OR

- Press the corresponding key to the memory location, then press SEND.

Two-Touch Dialing (Speed Dialing) This dialing feature enables you to dial numbers in your phone book through two keys (for locations 10 to 99).

1) Press the first digit.
2) Press and hold the key of the second digit.

OR

1) Press the first and second digits, then press SEND.

Three-Touch Dialing (Speed Dialing) This dialing feature enables you to dial numbers in your phone book through three keys (for locations 100 to 199).

1) Press the first and second digits.
2) Press and hold the key of the third digit.

Dialing from a Memory List

1) From a memory list, press the scroll keys to go to the memory location you want.
2) Press SEND.

Dialing from a Memory Location

- On viewing and checking the memory location to call, press SEND.

Advanced Phone Book Features

You can edit existing phone numbers and add the appropriate suffix. (For instance, calling an automated answering machine or placing credit card calls.)

Enter the phone number and press Soft Key 1 Opt. Then select from the following using ⌃⌄.

- For Hard Pause (H)

  The phone pauses until you press Soft Key 1 Resume to send the next number.

- For Time Pause (T)

  The phone will pause for 2 seconds before sending the next set of numbers.

  Most automated answering machines require several timed pauses.

1. After you choose the type of pause, enter the additional number(s) (e.g., your pin number or credit card number.)
2. Select Soft Key 1 Opt. Then press **Save** to save this number with pauses.
3. The phone prompts you for the memory location where the number will be saved. Press Soft Key 1 Next to automatically store the number in the first available memory location. You also have the option to enter a specific three-digit memory location number.
   (Entry 9 is reserved for emergency calls.)
4. Select your desired label type, such as **Home, Office, Mobile, Pager, Data / Fax** using ‹ ›.
5. Enter a name for the phone number (up to 16 characters). If you do not want to enter a name, go to the next step.
6. Press **Save**. A confirmation prompt **Saved! Thanks!** displays on the phone.

Adding an Area Code to a Number from the Call History Log

Prepend can be used to add an area code to a phone number in your call history log. To add the number and make a call, select Soft Key 2 Book, press 1 for Call History, select the phone number to be prepended, press Soft Key 1 to select Opt, select View, type in the area code and press send.

Note You cannot save the phone number from the prepend stage. However, once you have made your call, you can go to Call History and save the number; the area code will be attached.

Chapter 3. Menu Features

General Guidelines to MENU Access and Settings

1. Press Soft Key 1 Menu. The three menu items will appear on the display screen.
2. Press , , or to go through the list of menu features.
3. Press the corresponding number to the menu item you want to select. Then the sub-menu list will appear on the screen.
4. Press the appropriate key to select the sub-menu you want to access.
5. Select preferred settings, using , , or . Press Soft Key 2 Back to go one step backward while accessing menu or selecting settings.
6. Press Soft Key 1 Ok to save the settings or Soft Key 2 Back to cancel without saving.

Sound (Menu 1)

Ring Sound (Menu 1 1)

Press Soft Key 1 Menu. Press 1 **Sound**, then select 1 **Ring Sound**. Press , , or until you find the sound you desire. Then press Soft Key 1 Ok to save the ring sound.

Ring Type (Menu 1 2)

Select one of four ring types (Ring, Vibrate, Vib+ Ring, and Lamp) with , , or .

Ring & Vibrate Volume (Menu 1 3)

Adjust the volume of the ringer using , , or .

When lamp is selected, the message **Ring Type is Not Adjustable** is displayed on the screen.

Note **Ringer Off** on the screen

1. Press Soft Key 1 Menu, then press number 1 **Sound**.
2. Press number 3 **Ring & Vib Vol.** Increase the volume of the ringer using the button.
3. Press Soft Key 1 Ok.
   Also make sure the Ring Type (Menu 1 then 2) has not been set to **Lamp**.

Key Tone (Menu 1 4)

Set Key Tone length and touch tone playback speed.

- Normal: Sends out a tone for a fixed period of time.
- Long: Sends out a continuous tone for as long as you keep the key pressed.

Note Use the volume buttons on the side of the phone to increase and decrease the volume.

Note Dual-Tone Multi Frequency (DTMF). Signaling by the simultaneous transmission of two tones, one from a group of low frequencies and another from a group of high frequencies. Each group of frequencies consists of four frequencies. Setting Key Beep length to Long will extend the DTMF tone. Press **MENU**, then 1@ and press 4GHI. Using ⌃⌄ select Long. Press Soft Key 1 Ok.

Key Volume (Menu 1@ 5JKL)

Adjust the key beep volume (made when pressing the key).

Earpiece Volume (Menu 1@ 6MNO)

Adjust the earpiece volume during a call by pressing the Side Keys.

Alerts (Menu 1@ 7PQRS)

One of the four Alert options could be turned on.
Press Soft Key 1 Menu. Press 1@ **Sound**. Press 7PQRS **Alerts**.

Check each option and turn it off if desired.

1. Fade (Menu 1@ 7PQRS 1@)

   Set an alert to inform you when you have lost a call or lose services.

2. Minute (Menu 1@ 7PQRS 2ABC)

   Alerts you 10 seconds before the end of every minute during a call.

3. Service (Menu 1@ 7PQRS 3DEF)

   If on, alerts you when service changes.

   When you enter a service area, the phone displays **Entering Service Area** message.

   When you leave a service area, the phone displays **Leaving Service Area** message.

4. Call Connect (Menu 1@ 7PQRS 4GHI)

   Alert tone notifies the user of the time when the call is connected.

Display (Menu 2ABC)

Backlight (Menu 2ABC 1@)

Choose the settings of the LCD and keypad backlight. **10 seconds** turns the backlight off 10 seconds after the last key was pressed. **30 seconds** turns the backlight off 30 seconds after the last key was pressed. **On When Cellcase open** means that the backlight is always on while cellcase is open. **Always off** means that the backlight is never on.

Banner (Menu 2ABC 2ABC)

Press Soft Key 1 Menu.
Then press 2ABC **Display**. Press 2ABC **Banner**. Press Soft Key 1 Opt. Select **Edit**. Then enter the string of characters you want to be displayed (up to 16 characters). Then press Soft Key 1 Save.

Theme (Menu 2 3)

You can set up the screen displayed on the LCD screen in standby mode. (Default, Star theme)

Language (Menu 2 4)

Set the Multi-language feature to your language preference.

1. Press Soft Key 1 Menu.
   Then 2 **Display**.
2. Press 4 **Language**.
   Select the language then press Soft Key 1 Ok. (English/Spanish)

Version (Menu 2 5)

View the software and PRL version.

System (Menu 3)

System Select (Menu 3 1)

Choose setting to control which cellular company your phone uses. Leave this setting as default unless you want to alter the system selection (as instructed by your service provider).

▶ Home is B (Automatic_B, Automatic_A, Home only) is displayed.

Set NAM (Menu 3 2)

Select the phone's NAM (Number Assignment Module) if the phone is registered with multiple service providers.

Auto NAM (Menu 3 3)

Allows the phone to automatically switch to one of the programmed telephone numbers if it is operating in the corresponding service provider area.

Force Call (Menu 3 4)

Makes next call in analog mode. You have 30 seconds to place an analog call. This feature is typically used for data applications.

Serving System (Menu 3 5)

You can identify the channel number of the system which is served and SID Number.

This information is only for technical support.

Features (Menu 4)

Data/Fax (Menu 4 1)

In **Data/Fax** setting, data and faxes can be transmitted.

Wireless data communication services refer to utilization of subscriber terminals for access to Internet with personal computer or laptops at 8 Kbps or at maximum of 13 Kbps.

Select **Menu**, then press 4 **Features** and then 1 **Data/Fax**.

Your service provider needs to activate your **Data Mode** to be able to use the Data/Fax option. (Requires Data Connection Kit)

- Data In: This setting enables the subscriber terminal to receive data calls.
- Fax In: This setting enables the subscriber terminal to receive fax transmittals.

Note The Data Connection Kit-your wireless connection to the Internet and other dial-up networking functions. This Kit lets you connect your PC, Windows CE, or Palm OS device to your LG wireless phone freeing you from having to locate a telephone outlet. You can send or receive an e-mail, a fax, or access the Internet any time, any where.

Auto Answer (Menu 4 2)

Select the ring type before the phone automatically answers a call. This feature is most commonly used with the hands-free kit.

Press Soft Key 1 Menu.
Then press 4 **Features**. Press 2 **Auto Answer**.
Select an option and press Soft Key 1 Ok.

- Off
- after 1 ring (or melody 5 seconds)
- after 3 rings (or melody 10 seconds)
- MACHINE Enable

  When you have an incoming call, the phone automatically responds with a pre-recorded voice message and records the caller's message after 3 rings.

Note Auto Answer only works when the cellcase is open.

Auto Retry (Menu 4 3)

Set the length of time the phone waits before automatically redialing a number when the attempted call fails.

- off / every 10 seconds / every 30 seconds / every 60 seconds

One-Touch (Menu 4 4)

Enable/Disable one-touch dialing.

Voice Privacy (Menu 4 5)

Set the voice privacy feature for CDMA calls as **Enhanced** or **Standard** CDMA offers inherent voice privacy. Check with your service provider for availability of the enhanced voice privacy mode.

Audio AGC (Menu 4 6)

Enable / Disable the function of Audio AGC system.

This feature provides a better audio experience by enabling the Audio Gain Control (AGC) system to control the dynamic range and volume of the sending and receiving voice across different levels of speaker and environments.

To enable / disable this function, Press Soft Key 1 Menu, then press 4 **Features** then press 6 **Audio AGC**.

Utility (Menu 5)

Country Code (Menu 5 1)

You can search for the national code of all countries in the world. (total 123 countries)

Calculator (Menu 5 2)

You can calculate simple mathematics.
(To the second decimal place)

For example: 25 ×100=2500

1) Press 2ABC and 5JKL in order.

2) Select × (multiplication) using ‹.

3) Press 1@ , 0NEXT , and 0NEXT , in order.

4) Select = using Soft Key 1.

Then you will see the result of the calculation, **2500**.

Security (Menu 6MNO)

Press Soft Key 1 Menu and select 6MNO **Security**. Enter your default lock code (last four digits of mobile phone number or **0000**). Select 6MNO **New Lock Code**. Enter the new four-digit lock code of your choice. For confirmation, the phone will prompt you to enter the **New Lock Code** again.

Lock Mode (Menu 6MNO 1@)

Helps you to protect your phone from unauthorized use and once the phone is locked, the phone is restricted from making most calls until the lock code is entered.

You can still receive phone calls and make emergency calls while your phone is locked. **Never** means that the phone is never locked. When locked, you can only make emergency calls or receive incoming calls. **On power up** means that the phone is locked when it is turned on. **Always** means that the phone is always locked.

Restrict (Menu 6MNO 2ABC)

Press Soft Key 1 Menu. Press 6MNO **Security**. Enter the four-digit lock code. Then press 2ABC **Restrict**. Then set the call restriction to **Yes** or **No** (using ⌃). Press Soft Key 1 Ok.

If you set it to **Yes** you can only place calls to emergency numbers and phone numbers stored in the memory locations.

You can still receive calls in the restrict mode.

Clear Call (Menu 6MNO 3DEF)

Allows you to delete all the telephone numbers saved in the **Call History**.

Press Soft Key 1 Menu. Press 6MNO **Security**. Then enter the four-digit lock code. Press 3DEF **Clear Call**. Select **Yes** using ⌃. then press Soft Key 1 Ok.

Clear Data (Menu 6MNO 4GHI)

Deletes all information saved in memory locations (001-199), schedule and message. (Entry 9 is reserved for emergency calls.) Be careful since any deleted information is not recoverable.

Emergency # (Menu 6MNO 5JKL)

Allows you to enter 3 emergency numbers (**Edit → enter number → Save →** ⌃). You can call these numbers and 911 even when the phone is locked or restricted.

New Lock Code (Menu 6MNO 6MNO)

New Lock Code allows you to enter a new four-digit lock code number. For confirmation, it will ask you to enter the new lock code twice. This is the same number as the pin code.

Voice Service (Menu 7pqrs)

Allows you to use two voice-activated functions or record conversations. By saying a programmed word, you can make a call from your personal phone book. When you have an incoming call, you can say a programmed word to answer the call or send it directly to your answering machine. Voice Service also enables you to record phone conversations.

- Voice Dialing

  You can make a call by simply saying the programmed word.

- Voice Recording

  You can recorde conversations over the phone.

- Voice Memo

  Allows you to leave yourself a voice message.

- Auto Answering Machine (Voicemail)

  Allows you to set your phone to direct incoming calls to voicemail.

Voice Memo (Menu 7pqrs 1@)

There are 2 options, playback or record. In playback mode, you will have a list of recorded messages and you can hear all recorded messages by pressing ⌃⌄.

To record a message:

1. Press Soft Key 1 Menu, then press 7pqrs **Voice Service**.
2. Press 1@ **Voice Memo, Record.**
3. Press Ok to record voice and follow voice prompts.
4. Press any key to stop your recording.

To Play a Voice Memo:

1. Press Soft Key 1 Menu, then press 7pqrs **Voice Service**.
2. Press 1@ **Voice Memo, Playback**.
   The most recent voicemail appears on the top. (Example: 01:17:00 000.1 **V** Voice or **R** Recorded.)
3. Select Opt then **Replay**.

Note From the main menu you can also hold down CLR until you get to playback Record.

Training (Menu 7pqrs 2abc)

Voice Command allows you to answer or send the call to the answering machine.
To set up Voice Command:

1. Press 7pqrs **Voice Service**, then 2abc **Training**.
2. Practice the voice command (Yes/No).
3. When you receive a call, you say **Yes**, the call is connected and say **No** the bell rings continuously. This option is available only when phone is connected to the **hands-free kit**.

Note **Voice Service** uses the pre-programmed message and the caller can leave the message in voicemail when you are not available to answer the phone. You can play back the message later.

To activate this option:

1. Press Soft Key 1 Menu. Then press 4GHI **Features**.
2. Press 2ABC **Auto Answer** then use ⌄ and select **Answer Machine**.
3. Press Soft Key 1 Ok.

Undo Train (Menu 7PQRS 3DEF)

Allows you to delete the recorded voice command from the practice.

Voice Setup (Menu 7PQRS 4GHI)

There are three options (Manual, Auto, and Disable) for Voice Dialing. On manual mode, press CLR to start this feature. On auto mode, this feature will be available upon opening the cellcase. In Disable mode, voice dialing is disabled when you press CLR, disabled message will be displayed on the screen.

Saving Phone Numbers With Voice Dialing

1. Enter the phone number that you want to save (up to 32 digits).
2. Press Soft Key 1 Opt, then a sub-menu will appear.
3. Select **Save** on the sub-menu.
4. The phone prompts you for the memory location where the number will be saved. Press Soft Key 1 Next to automatically store the number in the first available memory location. You also have the option to enter a specific three-digit memory location number. (Entry 9 is reserved for emergency calls.)
5. Select your desired label type, such as **Home, Office, Mobile, Pager,** or **Data/Fax** using ⌄.
6. Enter a name for the phone number (up to 16 characters). If you do not want to enter a name, go to the next step.
7. If you want the number with Voice Dialing, use ⌄ to highlight **No Voice**. Use ⌄ then select **Voice** press Soft Key 1 Save.
8. Press Soft Key 1 Ok to enter **Voice Training**.
9. A prompt will announce **Name Please.** Say the name and label associated with the phone number.
10. A second prompt is given. **Again** repeat the name and label associated with the phone number. A confirmation prompt is given **Added,** then **Saved successfully** displays on the phone.

    (You may store up to 20 phone numbers with Voice Dialing.)

Adding the Voice Dialing Feature on a Previously Saved Number

1. Press Soft Key 1 Book.
2. Press **Phone Book, Find Entry**.
3. Phone will prompt you to select an entry by displaying **Enter Entry #** on the display screen.
4. Enter the entry. If you press Soft Key 1 Ok without selecting any entry, you may view the entire list saved in your phone book.
5. Highlight the desired **Phone Number** using ⌄ to add the Voice Dialing feature and then press Soft Key 1 View.
6. If you want the number with Voice dialing, use ⌄ to highlight **No Voice**. Use the ‹ › then select **Voice** press Soft Key 1 Save.
7. Press Soft Key 1 Ok to enter **Voice Training**.
8. A prompt will announce **Name Please,** say the name and label associated with the phone number.
9. A second prompt is given. **Again,** repeat the name and label associated with the phone number. A confirmation prompt is given **Added** then **Saved successfully** displays on the phone (You may store up to 20 phone numbers with Voice Dialing.)

Using the Voice Dialing Feature When Making a Call

1. Press Soft Key 1 Menu, then press number 7PQRS **Voice Service**.
2. Press number 4GHI **Voice Set up**.
3. Use ⌄ then select one of the three options (Manual, Auto, and Disable) for Voice Dialing.

On Manual Mode, press CLR to start this feature.

On Auto Mode, this feature will be available upon opening the cellcase.

On Disable Mode, Voice Dialing is disabled when you press CLR, the message will be displayed on the screen.

- To record the voice command, Press CLR while in the hands-free kit and record the voice command as per your preference.
- When you hear **Incoming call answer?** in hands-free kit, if the user says **yes** the call is connected, say **no** the bell rings.

Browser Start (Menu 8TUV)

Press and hold down 0NEXT or press Soft Key 1 Menu.

Then press 8TUV **Browser Start**.

See **Chapter 7, MiniBrowser** on page 65~71.

Chapter 4. Book Features

Call History (Book 1@)

Allows you to view the 30 most recently dialed phone numbers. Once you exceed the 30-number storage limit, the oldest call history record is overwritten. These calls are divided into 3 types of calls.

Outgoing (Book 1@ 1@)

Allows you to view list of the last 10 outgoing calls you made. From the list you may place a call by pressing SEND.

Incoming (Book 1@ 2ABC)

Allows you to view list of the last 10 incoming calls. From the list you may place a call by pressing SEND.

Missed (Book 1@ 3DEF)

Allows you to view list of the last 10 missed calls. From the list you may place a call to these numbers by pressing SEND.

Call Information (Book 1@ 4GHI)

1. Last Call (Book 1@ 4GHI 1@)

Displays the time of last call made.

2. Home Calls (Book 1@ 4GHI 2ABC)

Allows you to keep a running count of the time you spend making calls in your service area since last reset. To reset the call timer, press Soft Key 1 Opt, then select Soft Key 1 Sel after selecting **Zero** using ⌃.

3. Roam Calls (Book 1@ 4GHI 3DEF)

Allows you to keep a running count of the time you spend making calls in non-service area. To reset the call timer, press Soft Key 1 Opt, and then select Soft Key 1 Sel after selecting **Zero** using ⌃.

4. All Calls (Book 1@ 4GHI 4GHI)

Allows you to keep a running count of the time you spend making all calls either in your service area or in non-service area. Resetting the call timer is not possible.

Recent Call History List

Allows you to view the 30 most recent phone numbers. Speed dialing for the phone numbers in Call History is available.

1. Press Soft Key 2 Book.
2. Press **Call History.**
3. Example: Press **Outgoing.**
4. Press *, #, or ⌃ to scroll through the last ten calls and scroll to the number you want to call.
5. Press SEND to place a call or choose **View** of Soft Key 1 Opt to see the details of the call. Press Soft Key 1 Opt and select Save to save the number in a memory location. (If you need further information, please refer to pages 25~26.)

Phone Book (Book 2ABC)

Find Entry (Book 2ABC 1@)

1. Press Soft Key 2 Book.
2. Press **Phone Book, Find Entry.**
3. Your phone will prompt you to enter an entry number.
4. Enter an entry number. If you press Soft Key 1 Ok without selecting an entry, you may view the entire list saved in your phone book.

Note While you are viewing an entry, you may move to another entry by pressing Up/Down( )key. If you press Soft Key 1 Opt, you can save or erase.

Find Name (Book 2ABC 2ABC)

1. Press Soft Key 2 Book.
2. Press number 2ABC **Phone Book**. Press number 2ABC **Find Name**.
3. Enter the letter(s) that you want to search for. (At least three letters are required for a quick search.) Then press Soft Key 1 Find. You will see a list of matching names displayed on the screen. If the name is found, the name will be displayed and if the name is not found, **Not Found** message will appear.

Note On Find Name menu, you can change mode by pressing (T9En -> Eng -> 123 -> Spc -> T9HLP)

Add Entry (Book 2ABC 3DEF)

You can save telephone numbers, pager numbers, and so on, up to 198 entries (Entry 9 is reserved for emergency calls.)

1. Press Soft Key 2 Book.
2. Press **Phone Book, Add Entry.**
3. Enter the phone number, then press Soft Key 1 Next.
4. Select the memory location number.
5. Select the desired phone label using .
6. Enter Name.
   - To enter an E-mail address, select **E-mail** from label, press to move to the available E-mail addresses.
7. You may select the desired ID ring type, secret, and voice recognition option using .
8. Press Soft Key 1 Save when you are done.

Note Phone Type

Home	Entry of Home Phone Number
Office	Entry of Office Phone Number
Mobile	Entry of Mobile Phone Number
Pager	Entry of Pager Number
Data/Fax	Entry of Data/Fax Number
E-Mail	Entry of E-mail Address

Find E-mail (Book 2 4)

1. Press Soft Key 2 Book.
2. Press **Phone Book, Find E-mail.**
3. Enter the E-mail address you want to search for and press Soft Key 1 Find. If the E-mail address is found, the E-mail address will be displayed and if the E-mail address is not found, **Not Found** message will appear.

▶ Select the item you want to view using .

4. After selecting the E-mail address to edit from E-mail list, press Soft Key 1 View, and the phone book entry will be displayed.
5. After selecting E-mail label, press to move to the available entry to edit or delete.
6. To save, press Soft Key 1 Save.

▶ To delete E-mail address: Move to the phone book from either **Find E-mail** or **Find Entry** and after selecting the E-mail label, press to move to the memory location, press and hold CLR for a while to delete E-mail address and press Soft Key 1 Save to confirm.

Scheduler

Scheduler helps you to create and manage your agenda. Your schedule is stored by date and your phone lets you know when an agenda item comes due. You may also take advantage of the **Scheduler Wake up** function.

Scheduler Item Descriptions

Scheduler (Book 3)

Current date/year is displayed.

After selecting the required date, press Soft Key 1. The selected schedule of date/year will appear on the display screen (this function is available on **Add Event** and **View Daily** menu only).

Date/Time Edit - Time display is a 24-hour clock setting (i.e., 6:30am = 06:30, 1:30pm = 13:30)

Using , select the day.

Press Soft Key 1 (above the SEND key,) then select Add Event. Change to the desired schedule time and press Soft Key 1 Ok. Type the description, then press Soft Key 1 Opt then **Save**.

This option is available in digital areas only. If you are in an analog area, you will get an error message No Time Info Is Available while you are attempting to set up a schedule.

Add Event (Book 3 (Soft Key 1) 1)

- Date/Time Edit.
- After editing the date and time, press Soft Key 1 Ok.
- Enter items for **Scheduler**.
- Select **Save** in Soft Key 1 Opt.

View Daily (Book 3 (Soft Key 1) 2)

- All events of the selected date are displayed.
- You may select either **Edit** or **Erase**.

View All (Book 3 (Soft Key 1) 3)

- All stored entries are displayed.
- You may select either **Edit** or **Erase**.

Erase All (Book 3 (Soft Key 1) 4)

- To delete information, scroll to **Yes** and press Soft Key 1 Ok.
- All items in Schedule will be deleted.

Erase Old (Book 3 (Soft Key 1) 5)

- To delete information, scroll to **Yes** and press Soft Key 1 Ok.
- Past **Scheduler** items are deleted.

Wake Up (Book 4)

1. Press Soft Key 2 Book, then 4 **Wake up**.
2. Press 1 **Set Alarm**, then set time for alarm.
3. Press Soft Key 1 Save.

This option does not work if your Ring Type (Menu 1 **Sound**, then 2 **Ring Type**) has been set to **Lamp**.

This option is available in digital areas only. If you are in an analog area, you will get an error message Sys-Time Error Don't Set Alert Time while you are attempting to set up an Alarm.

Set Alarm (Book 4 1)

- Current time is displayed upon entering menu.
- Set time for alarm and press Soft Key 1 Save.
- At alarm time **Wake Up** is displayed and an alarm will sound.
- Ringing (or vibration) will stop when any key is pressed or cellcase is opened.
- Ring volume is controlled according to the setting in reception mode. However, ringing (or vibration) will not be heard when reception mode is set to **Lamp**.
- Set Alarm - Time display is a 24-hour clock setting (i.e., 6:30am = 06:30, 1:30pm = 13:30).

Erase Alarm (Book 4 2)

- Alarm will be deleted.

My Phone# (Book 5)

To view your phone number:

Press Soft Key 2 Book and then press number 5 **My Phone#**. The number will be displayed on the screen.

Chapter 5. Message Features

Text message, page, and voicemail box become available as soon as the power is on. You can access these types of messages using the Message Key . In addition, you can make a call to the callback number by pressing SEND during a message check.

The phone can store up to 30 messages (One voice message, 29 text messages.) with 245 characters per message. Your service provider may not provide the above features.

Character limits: The LG-TM510 supports up to 245 characters per message including header information. Limits to available characters per message may exist, please check with your service provider for system capabilities.

The message information stored is determined by phone mode and service capability. You can check types of messages by pressing the Message Key .

Types of Menu

- Voice: Shows the number of messages in voicemail.
- Send Msg
- New Text: Newly received text messages.
- Old Text: Opened but not erased text messages.
- Outbox: Informs the status of the saved message.
- Erase Msgs: Deletes all stored messages.
- Setting: Selects alert type for new message(s).
- Browser Msg
- Browser Set

New Message Alert

There are four ways your phone alerts you of new messages.

1. The phone displays the message on the screen.
2. One of four types is heard (if selected.)
3. The red light blinks.
4. The message icon is displayed on the display screen . In the case of an urgent message, the icon will flash and an **asterisk** mark will be displayed on both sides of the message.

Note If you receive the same message twice, your phone deletes the older one and the new one is stored as **DUPLICATE**.

Voice (1@)

Allows others to view the voice messages recorded in the voicemail box.

If the callback number is available, press SEND , to place a call to the callback number.

Checking of Voicemail Box

1. Press ( ).
2. Select 1@ **Voice**.
3. Press SEND .
   (If the callback number is available)

Out of Memory Warning

No more messages can be received until enough memory space becomes available.

At this time, the message **NOT ENOUGH MEMORY** will be displayed on the display screen and New Message is rejected.

Send Message (2abc)

Menu

Send To: This feature has a multiple address send function, up to 10 different addresses.

There are four optional menus of Continue, Next Address, Previous Address, and Phone Book.

Continue	Used to save the current address.
Next address	Allows you to enter the next sending address.
Previous address	Allows you to enter the previous sending address.
Phone book	Allows you to refer to the address in your phone book.

Msg: Allows you to enter the transmitted message.

There are four available optional menus of Send, Save, Option, and Canned.

Send	Used to send the message.
Save	Used to save sending address, callback number, user data, current time.
Option	Send, CB#, Priority, Deferred, Validity, Delivery ACK are available options.
Canned	Allows you to record up to 10 of the most frequently used words.

- 10 texts: Yes, No, Call me, Need directions, Where are you?, Will call later, Busy, On my way, Will arrive 15 minutes, Thank you.

Send	Used to send the message.
CB#	Used to enter the callback number.
Priority	Allows you to designate message priority, **Normal** or **Urgent**.
Deferred	Allows you to delay sending the message until the programmed time frame.

Delaying time frame is as follows: Immediate, After 30 min., After 1 hour, After 2 hours, After 12 hours, After 1 day, and After 2 days.

Validity: Indicates the validity of the message delivered to the Short Message Center (SMC) without being transmitted to the sending address for certain period of time. Those messages will be deleted within the programmed time frame. Validity time frame is as follows: 30 minutes, 1 hour, 2 hours, 12 hours, 1 day, 2 days, and Continue.

Delivery ACK: Allows you to be certain the message transmission has gone through.

When all fields are entered, press SEND to send the message.

If you press SEND without a sending address, a warning message is displayed on the display screen. When the message has gone through, a confirmission message is displayed on the screen. If the message has not

gone through, the MSG not Delivered will be displayed with one of the five failure reasons (Network Problem, Not available, Invalid address, MSG too long, Not support, or MSG failed).

New Text (3)

Reading Newly Received Text Messages

The latest message will be automatically displayed on the screen. To scroll through the received messages, use the ▲ or ▼.

After reviewing a message, you can go to the next new message by pressing ▼.

If you press Soft Key 1 Opt, then you can see 5 sub-menus:

Reply This function sends a reply to the SMS originating address or E-mail address. If the SMS has both originating address and E-mail address, the reply will be sent to the E-mail address only.

Forward Allows you to forward a message to a different address or number.

Erase Deletes a message.

Save addr. Shows the phone number, E-mail list on the LCD. You can save the phone number on the list into phone book by pressing Soft Key 1 Save. If you want to place a call to the number, press SEND.

You can see up to five E-mail addresses. The address with @ is considered an E-mail address. On E-mail, if you press Soft Key 1 Opt, you can save the E-mail address into new or old entry.

Protect? Protects a message even when all the other messages are deleted. There are two options of disable and enable. When you select (protect?,) an ∗ will be displayed in front of each message.

※ Auto Delete Function: If maximum storage capacity is reached, old messages will be deleted when you receive a new message. Messages that have been protected will not be deleted.

Old Text (4)

1. Press ▲ (✉).
2. Select 4 **Old Text**.

1) Lists messages opened but not deleted by user.

2) The saved messages displayed on the screen can be selected by pressing ▲▼.

Outbox (5)

Displays the status of the messages recorded in the voicemail box.

- Status
  - : Save
  - : Send - Messages saved in Short Message Center (SMC) have been transmitted.
  - : Fail
  - : Delivery - Message has been delivered.
  - : Cancel - Allows you to cancel sending a message.
  - : Multi - Sending address.
- Option menu is available. Option menu includes View, Erase, and Cancel.

Resend: Allows you to retransmit the selected message.

View: Shows the message saved currently.

The view menu has three sub-menus of Resend, Open, and Erase.

Resend	Allows you to retransmit the selected message.
Open	Used to copy the saved message.
Erase	Used to delete the recorded message.
Cancel	Used when the message has not gone through for some reason. If you press Soft Key 1 Save, the message you tried to transmit is erased.

Erase Message (6)

All the voicemail box messages, text messages, and pages are deleted when you select **6. Erase Message** from the Message Menu screen. Protected messages will not be erased.

Erase Inbox (6 1)

Deletes all unprotected records in the inbox.

Erase Outbox (6 2)

Allows you to delete all the information saved in the outbox.

Erase All (6 3)

Allows you to delete all the information saved in the outbox and inbox.

Setting (7)

There are many ways your phone alerts you of a new voicemail message:

By displaying a message on the screen.

By sounding a beep or vibration.

By flashing a lamp.

Alert (7 1)

Allows you to select the alert type for a new message. Alert types are 2 Alerts, 4 Alerts, Lamp, and Vibrate.

2Min Alert (7 2)

User may select 2-min alert for reminder in case a new message(s) is not opened.

Default CB# (7 3)

Enables its own phone number to be verified on call back menu.

Auto Save (7 4)

Setting menu to save sent messages in the outbox automatically.

Auto Delete (7 5)

Setting menu to delete the messages automatically when you exceed storage limit.

Browser Msg. (8) Browser Set (9)

See **Chapter 7. MiniBrowser** on pages 65~71.

Mute (During a call: Menu 1@)

- Sometimes it is necessary to mute a call so that the caller does not hear you or certain background noise. To use this function during a call, press Soft Key 1 Menu and 1@.
- To cancel mute, press Soft Key 1 Menu and 1@ again.

Memo (During a call: Menu 2ABC)

Provides a place to take notes. You can use it like a piece of paper to take a note during a meeting.

Recording (During a call: Menu 3DEF)

Allows you to record the conversation over the phone by pressing CLR. This operation toggles between **Enable** and **Disable**.

Key Tone (During a call: Menu 4GHI)

Set key beep length and touch tone playback speed.

- Normal Sends out a tone for a fixed duration, no matter how long you press the key.
- Long Sends out a continuous tone, as long as you keep the key pressed.

Voice Privacy (During a call: Menu 5JKL)

Set the voice privacy feature for CDMA calls as **Enhanced** or **Standard**:

CDMA offers inherent voice privacy. Check with your service provider for availability of the enhanced voice privacy mode.

Chapter 7. MiniBrowser

The MiniBrowser feature allows you to view Internet content specially designed for the mobile phone interface. Access and selections within this feature are service provider dependent.

For specific information on MiniBrowser access through your phone, refer to your service provider.

Overview

The MiniBrowser allows the user to use a variety of Internet services. Using the MiniBrowser on the phone allows you to:

- Send and receive E-mail.
- Browse and search the World Wide Web via web pages specially designed for cellular customers.
- Set bookmarks to directly access your favorite sites.
- Retrieve information such as stock quotes and flight schedules from the Internet.

Quality of Browser

Browsing the web via the phone is not like using your home computer. Site providers have selected only the critical aspects of their site to present to wireless phone users and have removed most graphics.

Billing

Each time you start the MiniBrowser, the phone will connect to the Nationwide Network as necessary, the phone icon (In Use Icon) will appear on the display screen, and you will be billed accordingly. Rates will vary according to your billing plan.

Each time you start the MiniBrowser you will view a reminder that you will be billed for the connection time. If you wish to disable this reminder, follow the steps below:

1. Message Menu ➛ Browser Set 9wxz ➛ Prompt 1@.
2. Disable the reminder by selecting **None** using .

Accessing the MiniBrowser

You can access the MiniBrowser by pressing and holding 0NEXT in the initial screen or by selecting the item from Main Menu screen.

Start MiniBrowser (Menu 8tuv)

1) From the Main Menu, highlight **8. Browser Start** and press Soft Key 1 Sel.
2) A reminder of the charge will appear; press Soft Key 1 Yes to launch the MiniBrowser if required.
3) After a few seconds, you will see the Home Page.

Ending a MiniBrowser Session

You can end a MiniBrowser session by pressing END PWR.

If the prompt **To end** or **Both** option is set in the MiniBrowser Setup, you will be prompted whether you want to end the browser call. (Message Menu ➛ Browser Set 9wxz ➛ Prompt 1@.)

Ending Browser calls - Users should be able to end a browser session by pressing END PWR.

Navigating through the Browser

While using the MiniBrowser, you will find that on screen items may be presented in one of the following ways:

- numbered options (some options may not be numbered).
- links (embedded in content).
- text or numeric input.
- simple text.

You can act on the options or the links by making use of Soft Keys. The Soft Keys are just below the display screen.

Navigator Keys

Scrolling Up/Down by Item

You can use your to scroll through the content if the current page does not fit into one screen. The currently selected item is indicated by a › cursor on the screen, and the will also move the cursor.

Fast Scrolling Up/Down

By pressing and holding the cursor will scroll quickly through the menus.

Scrolling Up/Down by Page

Press Side Keys to move screen page up and down.

Go to Home Page

To go back to the Home Page, press and hold SEND.

View Browser Menu

Press and hold 0 NEXT to use browser menu when the MiniBrowser is being used.

Clearing out text/number entered

When entering text or numbers, press CLR to clear the last number, letter, or symbol. Press and hold CLR to completely clear the input field.

Selecting and activating items using Soft Keys and/ or digits

If the items on a page are numbered, you can use your keypad (number) keys or ⇕ to select an item, or you can select the items by moving the cursor and selecting the appropriate Soft Keys.

Soft Keys

To navigate to different screens or select special functions, use the Soft Keys. Soft Keys are just below the display screen. Note that the function associated with the Soft Keys can change on each page and depends on each highlighted item.

Soft Key 1

The Soft Key 1 is used primarily for first options or selecting item but its function may change, depending on the content displayed.

Soft Key 2

The Soft Key 2 is used primarily for secondary options or a menu of secondary options.

Entering Text, Numbers, or Symbols

When you are prompted to enter text, the current text entry method will appear under the Soft Key 2 as Alpha, Smart, Number, or Symbol. (exact label depends on implementation)

To change the input mode, use Soft Key 2.

To enter an uppercase character, in Alpha or Smart mode only, press * before selecting the letter you wish to capitalize.

Initiating a phone call from the MiniBrowser

You may initiate a phone call from the MiniBrowser if the site you are using supports the feature, (the phone number may be highlighted and Soft Key 1 will appear as Call).

The browser connection will be terminated when you initiate the call. After you end the call, your phone will return to the screen from which you initiated the call.

Using Bookmarks

You can bookmark many individual pages for easy access at a later time. Bookmarks save you time by reducing the number of steps it takes to access a desired page.

To create a bookmark:

Go to the page that you want to mark. On the browser menu, select **Mark Site** or press and hold #.

If the page has a title, it will be automatically used for the name of the bookmark. When the bookmark is saved you can change the bookmark name if you want. Selecting Save will save the name and add the page to your list of bookmarks.

A message will appear confirming that the bookmark was added to the list. Select Soft Key 1 Ok to return to the screen that you marked to resume navigation within the MiniBrowser.

The new bookmark is added to the bottom of your bookmark list.

Finding a Bookmark

From the Home Page or press and hold *, then select the bookmark you want.

Or

From the Home Page, press and hold the number associated with the bookmark in the bookmark list.

Browser Message (Message Menu -> Browser Msg 8TUV)

This will display any browser messages or alerts.

Browser Setting (Message Menu -> Browser Set 9WXYZ)

Type of Browser Setting Menu.

Prompt: A prompt will display on the LCD just prior to launching the browser; this is to inform the user that this call will incur a usage charge. This step is used to prevent accidental activation of the browser since all subscribers will be provided with browser capabilities automatically.

A message is also available to inform the users whether or not they want to exit the browser after they press END PWR. Users can disable the extra step (or enable if it is disabled) through a menu option. (To end, None, To start, and Both.)

Alert Sound: There are 3 types of beeps that the user can assign to a browser message alert; 2 Beeps, 4 Beeps, or Mute.

Chapter 8. Accessories

There are a variety of accessories available for the phone. You can select these options according to your personal communication requirements. Consult your local dealer for availability.

Travel Charger

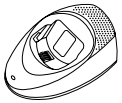
This charger, model TC-10W, allows you to charge the battery. It supports standard U.S. 120 Volt 60 Hz outlets. An orange light indicates that it is charging, a green light indicates charging is complete. It takes 5 hours to charge a completely discharged battery.

Battery (LGLi-AAEM)

Standard battery and Extended battery are available.

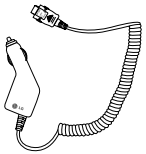
Desktop Charger

The desktop charger, model DC-41W, allows you to place the phone in the stand for charging. It can charge a completely discharged battery in 3 hours.



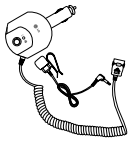
Cigarette Lighter Charger

You can operate the phone and trickle charge the phone's battery from your vehicle by using the cigarette lighter charger, model CLC-11W. It takes 5 hours to charge a completely discharged battery.



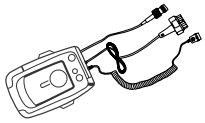
Hands-Free Car Kit (Portable)

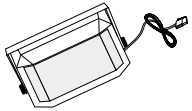
The hands-free car kit, model PHF-30W, enables you to attach the phone to the car providing you with hands-free operation. It will also charge a completely discharged battery in 5 hours.



Hands-Free Car kit (Installed)

The installed hands-free car kit, model IHF-51W, is permanently installed in your car, and provides you with hands-free operation. It will also charge a completely discharged battery as shown.





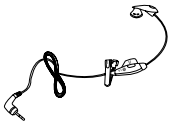
Data Cable Kit

Connects your phone to your PC. (Model KW-α)

Headset

Connects to your phone, allowing hands-free operation. Includes earpiece, microphone, and mute key.

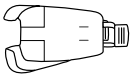
(Model Headset 1000)



Hand strap

AC Adaptor

Holster



Menu Tree

Press Soft Key 1 Menu. Press ⌃⌄ or 5JKL/#⊟ to scroll.

Sound
1. Ring Sound
2. Ring Type
   - ▶Ring
   - ▶Vibrate
   - ▶Vib+Ring
   - ▶Lamp
3. Ring & Vib Vol.
4. Key Tone
   - ▶Normal
   - ▶Long
5. Key Volume
6. Ear Volume
7. Alerts
   - ▶Fade
   - ▶Minute
   - ▶Service
   - ▶Call Connect

Display
1. Backlight
   - ▶10 seconds
   - ▶30 seconds
   - ▶On when Cellcase open
   - ▶Always off
2. Banner
3. Theme
   - ▶Default
   - ▶Star theme
4. Language
5. Version

System
1. System Sel
   - ▶Automatic_A
   - ▶Automatic_B
   - ▶Home only
2. Set NAM
3. Auto NAM
4. Force Call
5. Serving Sys

Features
1. Data/Fax
   - ▶Off
   - ▶Fax In
   - ▶Data In
2. Auto Answer
   - ▶Off
   - ▶after 1 ring
   - ▶after 3 rings
   - ▶MACHINE Enable
3. Auto Retry
   - ▶Off
   - ▶every 10 seconds
   - ▶every 30 seconds
   - ▶every 60 seconds
4. One-Touch
5. Voice Priv.
6. Audio AGC

Utility
1. Country Code
2. Calculator

Security
1. Lock mode
   - ▶Never
   - ▶On power up
   - ▶Always
2. Restrict
3. Clear Call
4. Clear Data
5. Emergency #
6. New Lock Code

Voice Service
1. Voice Memo
2. Training
3. Undo Train
4. Voice Setup

Browser Start

Press Soft Key 2 Book. Press ⌃⌄ or 5JKL/#⊟ to scroll.

Call History
1. Outgoing
2. Incoming
3. Missed
4. Call Info

Phone Book
1. Find Entry
2. Find Name
3. Add Entry
4. Find Email

Scheduler
1. Add Event
2. View Daily
3. View All
4. Erase All
5. Erase Old

Wakeup
1. Set Alarm
2. Erase Alarm

My Phone #

Press Mouse Key ⌃. Press ⌃⌄ or 5JKL/#⊟ to scroll.

Voice

Send Msg

NewText

OldText

Outbox

Erase Msgs
1. Erase Inbox
2. Erase Outbox
3. Erase All

Setting
1. Alert
2. 2 Min Alert
3. Default CB#
4. Auto Save
5. Auto Delete

Browser Msg

Browser Set
1. Prompt
2. Alert Sound

Chapter 10. Safety Guidelines

Safety Information

Exposure to Radio Frequency Signal

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

European and international agencies have set standards and recommendations for the protection of public exposure to RF electromagnetic energy.

- ►International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1996
- ►Verband Deutscher Elektrotechnik (VDE) DIN-0848

Directives of the European Community, Directorate General V in Matters of Radio Frequency Electromagnetic Energy

- ►National Radiological Protection Board of the United Kingdom, GS 11, 1988
- ►American National Standards Institute (ANSI) IEEE C95.1-1992
- ►National Council on Radiation Protection and Measurements (NCRP), Report 86
- ►Department of Health and Welfare Canada, Safety Code 6

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. Over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1).

The design of your phone complies with these standards when used normally. Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

Efficient Phone Operation

Normal Position

Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

Tips on Efficient Operation:

For your phone to operate most efficiently;

- Extend your antenna fully
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

For Vehicles Equipped with an Air Bag

An air bag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Batteries

Caution: All batteries can cause property damage, injury, or burns if a conductive material, such as jewelry, keys, or beaded chains, touches exposed terminals. The material may complete an electrical circuit and become quite hot. To protect against such unwanted current drain, exercise care in handling any charged battery, particularly when placing it inside your pocket, purse, or other container with metal objects. Your batteries are packed with a protective battery cover. When the battery is detached from the phone, please use this cover for storing your batteries when not in use.

Check the laws and regulations on the use of wireless phones in the areas where you drive. Always obey them.

Also, if using your phone while driving, please:

- ▶Give full attention to driving — driving safely is your first responsibility;
- ▶Use hands-free operation, if available;
- ▶Pull off the road and park before making or answering a call if driving conditions so require.

Most modem electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers

- ▶Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON
- ▶Should not carry the phone in a breast pocket
- ▶Should use the ear opposite the pacemaker to minimize the potential for interference

If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Turn your phone OFF in any facility where posted notices so require. FCC regulations prohibit using your phone while in the air. Turn OFF your phone before boarding an aircraft.

To avoid interfering with blasting operations, turn your phone OFF when in a **blasting area** or in areas posted **Turn off two-way radio**. Obey all signals and instructions.

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are not always clearly marked. They include fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane;) areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

FDA Consumer Update

The FDA has been receiving inquiries about the safety of mobile phones, including cellular phones and PCS phones. The following summarizes what is known — and what remains unknown — about whether these products can pose a hazard to health, and what can be done to minimize any potential risk. This information may be used to respond to questions.

Why the concern?

Mobile phones emit low levels of radiofrequency energy (i.e., radiofrequency radiation) in the microwave range while being used. They also emit very low levels of radiofrequency energy (RF), considered non-significant, when in standby mode. It is well known that high levels of RF can produce biological damage through heating effects (this is how your microwave oven is able to cook food). However, it is not known whether, to what extent, or through what mechanism, lower levels of RF might cause adverse health effects as well. Although some research has been done to address these questions, no clear picture of the biological effects of this type of radiation has emerged to date. Thus, the available science does not allow us to conclude that mobile phones are absolutely safe, or that they are unsafe. However, the available scientific evidence does not demonstrate any adverse health effects associated with the use of mobile phones.

What kinds of phones are in question?

Questions have been raised about handheld mobile phones, especially the kind that have a built-in antenna that is positioned close to the user's head during normal telephone conversation. These types of mobile phones are of concern because of the short distance between the phone's antenna — the primary source of the RF — and the person's head. The exposure to RF from mobile phones in which the antenna is located at greater distances from the user (on the outside of a car, for example) is drastically lower than that from handheld phones, because a person's RF exposure decreases rapidly with distance from the source. The safety of so-called cordless phones, which have a base unit connected to the telephone wiring in a house and which operate at far lower power levels and frequencies, has not been questioned.

How much evidence is there that handheld mobile phones might be harmful?

Briefly, there is not enough evidence to know for sure, either way; however, research efforts are ongoing.

The existing scientific evidence is conflicting and many of the studies that have been done to date have suffered from flaws in their research methods. Animal experiments investigating the effects of RF exposures characteristic of mobile phones have yielded conflicting results. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. In one study, mice genetically altered to be predisposed to developing one type of cancer developed more than twice as many such cancers when they were exposed to RF energy compared to controls. There is much uncertainty among scientists about whether results obtained from animal studies apply to the use of mobile phones. First, it is uncertain how to apply the results obtained in rats and mice to humans. Second, many of the studies that showed increased tumor development used animals that had already been treated with cancer-causing chemicals, and other studies exposed the animals to the RF virtually continuously — up to 22 hours per day.

For the past five years in the United States, the mobile phone industry has supported research into the safety of mobile phones. This research has resulted in two findings in particular that merit additional study:

In a hospital-based, case-control study, researchers looked for an association between mobile phone use and either glioma (a type of brain cancer) or acoustic neuroma (a benign tumor of the nerve sheath). No statistically significant association was found between mobile phone use and acoustic neuroma. There was also no association between mobile phone use and gliomas when all types of types of gliomas were considered together. It should be noted that the

average length of mobile phone exposure in this study was less than three years.

When 20 types of glioma were considered separately, however, an association was found between mobile phone use and one rare type of glioma, neuroepithelliomatous tumors. It is possible with multiple comparisons of the same sample that this association occurred by chance. Moreover, the risk did not increase with how often the mobile phone was used, or the length of the calls. In fact, the risk actually decreased with cumulative hours of mobile phone use. Most cancer causing agents increase risk with increased exposure. An ongoing study of brain cancers by the National Cancer Institute is expected to bear on the accuracy and repeatability of these results.

1. Researchers conducted a large battery of laboratory tests to assess the effects of exposure to mobile phone RF on genetic material. These included tests for several kinds of abnormalities, including mutations, chromosomal aberrations, DNA strand breaks, and structural changes in the genetic material of blood cells called lymphocytes. None of the tests showed any effect of the RF except for the micronucleus assay, which detects structural effects on the genetic material. The cells in this assay showed changes after exposure to simulated cell phone radiation, but only after 24 hours of exposure. It is possible that exposing the test cells to radiation for this long resulted in heating. Since this assay is known to be sensitive to heating, heat alone could have caused the abnormalities to occur. The data already in the literature on the response of the micronucleus assay to RF are conflicting. Thus, follow-up research is necessary.

2. The FDA is currently working with government, industry, and academic groups to ensure the proper follow-up to these industry-funded research findings. Collaboration with the Cellular Telecommunications Industry Association (CTIA) in particular is expected to lead to FDA providing research recommendations and scientific oversight of new CTIA-funded research based on such recommendations.

Two other studies of interest have been reported recently in the literature:

Two groups of 18 people were exposed to simulated mobile phone signals under laboratory conditions while they performed cognitive function tests. There were no changes in the subjects' ability to recall words, numbers, or pictures, or in their spatial memory, but they were able to make choices more quickly in one visual test when they were exposed to simulated mobile phone signals. This was the only change noted among more than 20 variables compared.

3. In a study of 209 brain tumor cases and 425 matched controls, there was no increased risk of brain tumors associated with mobile phone use. When tumors did exist in certain locations, however, they were more likely to be on the side of the head where the mobile phone was used. Because this occurred in only a small number of cases, the increased likelihood was too small to be statistically significant.

4. In summary, we do not have enough information at this point to assure the public that there are, or are not, any low incident health problems associated with use of mobile phones. The FDA continues to work with all parties, including other federal agencies and industry, to assure that research is undertaken to provide the necessary answers to the outstanding questions about the safety of mobile phones.

What is known about cases of human cancer that have been reported in users of handheld mobile phones?

Some people who have used mobile phones have been diagnosed with brain cancer. But it is important to understand that this type of cancer also occurs among people who have not used mobile phones. In fact, brain cancer occurs in the U.S. population at a rate of about 6 new cases per 100,000 people each year. At that rate, assuming 80 million users of mobile phones (a number increasing at a rate of about 1 million per month), about 4800 cases of brain cancer would be expected each year among those 80 million people, whether or not they used their phones. Thus it is not possible to tell whether any individual's cancer arose because of the phone, or whether it would have happened anyway. A key question is whether the risk of getting a particular form of cancer is greater among people who use mobile phones than among the rest of the population. One way to answer that question is to compare the usage of mobile phones among people with brain cancer with the use of mobile phones among appropriately matched people without brain cancer. This is called a case-control study. The current case-control study of brain cancers by the National Cancer Institute, as well as the follow-up research to be sponsored by industry, will begin to generate this type of information.

What is the FDA's role concerning the safety of mobile phones?

Under the law, the FDA does not review the safety of radiation-emitting consumer products such as mobile phones before marketing, as it does with new drugs or medical devices. However, the agency has authority to take action if mobile phones are shown to emit radiation at a level that is hazardous to the user. In such a case, the FDA could require the manufacturers of mobile phones to notify users of the health hazard and to repair, replace, or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions at this time, the FDA has urged the mobile phone industry to take a number of steps to assure public safety. The agency has recommended that the industry support needed research into possible biological effects of RF of the type emitted by mobile phones, design mobile phones in a way that minimizes any RF exposure to the user that is not necessary for device function, and cooperate in providing mobile phone users with the best possible information on what is known about possible effects of mobile phone use on human health.

At the same time, the FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of mobile phone safety to ensure a coordinated effort at the federal level. These agencies are:

National Institute for Occupational Safety and Health

Environmental Protection Agency

Federal Communications Commission

Occupational Safety and Health Administration

National Telecommunications and Information Administration

The National Institutes of Health also participates in this group.

In the absence of conclusive information about any possible risk, what can concerned individuals do?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if people are concerned about avoiding even potential risks, there are simple steps they can take to minimize the risk. For example, time is a key factor in how much exposure a person receives. Those persons who spend long periods of time on their handheld mobile phones could consider holding lengthy conversations on conventional phones and reserving the handheld models for shorter conversations or for situations when other types of phones are not available.

People who must conduct extended conversations in their cars every day could switch to a type of mobile phone that places more distance between their bodies and the source of the RF, since the exposure level drops off dramatically with distance. For example, they could switch to a mobile phone in which the antenna is located outside the vehicle, a handheld phone with a built-in antenna connected to a different antenna mounted on the outside of the car or built into a separate package, or a headset with a remote antenna to a mobile phone carried at the waist.

Again, the scientific data do not demonstrate that mobile phones are harmful. But if people are concerned about the radiofrequency energy from these products, taking the simple precautions outlined above can reduce any possible risk.

Where can I find additional information?

For additional information, see the following websites:

Federal Communications Commission (FCC) RF Safety Program (select Information on Human Exposure to RF Fields from Cellular and PCS Radio Transmitters): http://www.fcc.gov/oet/rfsafety

World Health Organization (WHO) International Commission on Non-Ionizing Radiation Protection (select Q's &A's): http://www.who.int/emf

United Kingdom, National Radiological Protection Board: http://www.nrpb.org.uk

Cellular Telecommunications Industry Association (CTIA): http://www.wow-com.com

U.S. Food and Drug Administration (FDA) Center for Devices and Radiological Health: http://www.fda.gov/cdrh/consumer/

Chapter 11. Frequently Asked Questions

Q: How do I record conversation over the phone?

A: Hold down the CLR key while you are on a call.

Q: How many Voice Activated phone numbers can I store in the phone book memory?

A: Total of 20 voice activated phone numbers.

Q: How much space do I have available for my Voicemail machine and Voice memos?

A: Total of 2K.

Q: How do I view the outgoing calls, incoming calls and missed calls?

A: Press Soft Key 2 Book then press number 1 **Call History**.

Q: How do I view all numbers stored in memory?

A: Press Soft Key 2 Book then press number 2 **Phone Book**.

Select number 1 **Find Entry** then press Ok.

Q: How do I clear the call timer (reset the time used monthly)?

A: Press Soft Key 2 Book, press 1, then select 4. Select 2 or 3. Use Soft Key 1 Opt. Then select Zero to reset the timer.

Q: How do I clear All Calls?

A: This cannot be reset.

Q: How do I find out my lock code?

A: The lock code is normally the last four digits of your mobile phone number or the manufacturer default number 0000.

- Please check with your service provider for further details. Each service provider may program this differently.

Q: What is my Pin Code?

A: Check with your service provider.

Q: How do I retrieve a new message or page?

A: Press ^.

For voicemail: Press 1 **VoiceMail**.

Press SEND. Then you can check the voicemail box.

For text messages: Press 3 **Text**.

IMPORTANT NOTE: You can only receive messages or pages if your service provider has activated and set up this feature.

Q: How do I send a text message?

A: Press ^ then select 2.

The 2-way SMS messaging needs to be set up by your service provider.

Q: How many events can I add to the schedule?

A: Total of 47 events.

TM510 Summary Table

FUNCTIONS	STEPS
Power On	Hold END PWR (for about 2 seconds)
Power Off	Hold END PWR (for about 2 seconds)
Making a call	Phone Number, SEND
Receiving a call	Open the cellcase or if the cellcase is open, Press any key except END PWR .
Volume Adjust	**Menu, 1, 3,** **Ok**
Ringing Sound	**Menu, 1, 1,** **Ok**
Ringing Type	**Menu, 1, 2,** **Ok**
Saving Phone Numbers	Phone number, Opt, Save, Memory Location, Next, Select Label, , Enter Name, Save (Max 198)
Saving Phone Numbers with Voice Dialing	Phone number, Opt, Save, Memory Location, Next, Select Label, , Enter Name, , No Voice, , Voice, Save, Ok, Say the Name, Again (Total of 20-50)
Adding a Phone Number to a Previously Saved Entry	**Book, 2, 1**, Enter Location, or press **Ok**, Select location, View, Select the default label (Home, Office…) , Select the new Label , Select Empty , Enter Number, Save, Default#, Sel.
Deleting Phone Numbers	**Book, 2, 1,** Enter Location, or press **Ok,** Select location , View, Opt, Erase Entry , Sel, Yes , Sel
One-Touch Speed Dialing	After Enable One-Touch (Menu, 4, 4) Hold the last digit **1-8** of the memory location (Entry 9 is reserved for emergency calls.)
Two-Touch Speed Dialing	Enable One-Touch (Menu, 4, 4) Press the first digit and press and hold the second digit of the memory location
Three-Touch Speed Dialing	Enable One-Touch (Menu, 4, 4) Press the first and second digit and press and hold the third digit of the memory location
Redialing	At Connection Failure, END PWR , SEND
Viewing Your Phone Number	**Book, 5**
Call History	**Book, 1**
Mute	**Menu, 1** while on line
Memo	**Menu, 2** while on line
Recording conversation	**Menu, 3** while on line
Last Call Time	**Book, 1, 4, 1,** Can't be Erased
Clear Home Calls	**Book, 1, 4, 2,** Opt, Zero
Clear Roam Calls	**Book, 1, 4, 3,** Opt, Zero
All Calls Time	**Book, 1, 4, 4,** Can't be Erased
Minute Alert	**Menu, 1, 7, 2,** , **Ok**
Backlight Setting	**Menu, 2, 1,** , **Ok**
Lock	**Menu, 6,** Lock Code**, 1,** , **Ok**
New Code	**Menu, 6,** Lock Code, **6,** , New Code, Re-Enter New Code
Restrict	**Menu, 6,** Lock Code, **2,** , **Ok**
Banner	**Menu, 2, 2**, Opt, Edit
Force Calls	**Menu, 3, 4**, **Ok** (Used in some analog areas only)
Auto Answer	**Menu, 4, 2**, , **Ok** (Works only when connected to the portable or installed hands-free kit)

Ringer Off	**Menu, 1, 3**, Increase the Volume , **Ok**
Clear Call List	**Menu, 6,** Lock Code, **3,** , **Yes, Ok**
Language	**Menu, 2, 4**, , **Ok** (English and Spanish)
Version	**Menu, 2, 5**
System Select	**Menu, 3, 1,** , **Ok** (Set by provider only)
Set NAM	**Menu, 3, 2,** , **Ok** (Set by provider only)
Data/Fax Mode	**Menu, 4, 1,** , **Ok** (Requires a data cable and data mode needs to be activated by provider)
Audio AGC (Audio Gain Control)	**Menu, 4, 6,** , **Ok** (Provides better audio experience in some environments)
Calculator	**Menu, 5, 2**
Play Back Voice Memo, Recording Conversation or Voice Messages	**Menu, 7, 1, 1,** Opt, Replay or Hold Down CLR , **1,** Opt, Replay (Max. recording 4 minutes.)
Erasing Play Back Voice Memo or Recording Conversation	**Menu, 7, 1, 1,** Opt, Erase, Sel, **Ok**
Start Browser	**Menu, 8** or Hold Down **0**
Using the Voice Dialing Feature When Making a Call	**Menu, 7, 4,** , **Ok** (In Manual Mode Press CLR to start this feature or Auto Mode. This feature will be available upon opening the cellcase

Setting the Voice service	**Menu, 4, 2,** , Answer Machine, **Ok** (uses the pre-programmed message and the caller can leave a message in voicemail
Setting the Voice Command	**Menu, 7, 2,** , Practice the Voice Command, Yes/No, 3- When you receive a call, you say **Yes**, the call is connected and say **No** the bell Rings. (This option is available only when phone is connected to the hands-free kit)
Scheduler	**Book, 3** This option is available in digital areas only (Max. 47 events)
Alarm (Wake Up)	**Book, 4** This option is available in digital areas only (Max 47 events)
Manner Mode	Hold Down Key for 2 Seconds
Voicemail	, **1,** SEND (Works in digital areas only)
Text Message	, **3**
Send Message	, **2**, Type Phone Number, Opt, Continue, Sel, Type Message, Opt, Send

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